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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,024	12/30/2003	Parimal Pal Chaudhuri	075005.0102	9229
5073 BAKER BOTT	7590 09/28/200 PS I I P	EXAM	EXAMINER	
2001 ROSS AV		. YALEW, FIKREMARIAM A		
SUITE 600 DALLAS, TX 75201-2980			ART UNIT	PAPER NUMBER
ŕ	·		2136	
			NOTIFICATION DATE	DELIVERY MODE
			09/28/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ptomail1@bakerbotts.com glenda.orrantia@bakerbotts.com

Office Action Summary		Application No.	Applicant(s)				
		10/749,024	CHAUDHURI, P	CHAUDHURI, PARIMAL PAL			
		Examiner	Art Unit				
		Fikremariam Yalew	2136				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence a	address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS ansions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 36(a). In no event, however, ma will apply and will expire SIX (6) I , cause the application to becom	NICATION. y a reply be timely filed  MONTHS from the mailing date of this e ABANDONED (35 U.S.C. § 133)				
Status							
•	Responsive to communication(s) filed on 17 Ju						
<i>'</i> —	· —	action is non-final.		,			
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 (	C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)🛛	Claim(s) 1-30 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-30</u> is/are rejected.						
7)	Claim(s) is/are objected to.			,			
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>30 December 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	raminer. Note the attac	hed Office Action or form I	PTO-152.			
Priority (	ınder 35 U.S.C. § 119	•					
12)[	Acknowledgment is made of a claim for foreign	priority under 35 U.S.	C. § 119(a)-(d) or (f).				
a)	☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received i	n Application No				
	3. Copies of the certified copies of the prior	rity documents have be	een received in this Nation	al Stage			
	application from the International Bureau	•					
* (	See the attached detailed Office action for a list	of the certified copies	not received.				
Attachmen		, <b>–</b>					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413) No(s)/Mail Date				
3) 🔯 Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 12/30/2003.	5) 🔲 Notice	of Informal Patent Application				

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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### **DETAILED ACTION**

1. Claims 1-30 have been examined.

2. Applicant's election of claims 1-30 in the reply filed on 07/12/2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

### **Drawings**

3. The drawing is objected to because figures 5-7 can't be clearly seen. Correction is required.

## Claim Rejections - 35 USC § 102

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Lafe US Patent No 6456744 B1

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6. As per claims 1,11,21: Lafe discloses a method/system/logic encoded in media of encompressing a data stream, comprising: compressing vectors from the data stream using one or more Multiple Attractor Cellular Automatas (MACAs)(See col 2 lines 30-38,col 15 lines 49-51); and

encrypting the compressed vectors using multiple Cellular Automata (CA) transforms(See col 9 lines 13-53,col 11 lines 38-46).

- 7. As per claims 2,12,22: Lafe discloses the method/system/logic encoded in media wherein compressing the vectors and encrypting the compressed vectors is a single integrated process implemented with a program executed on a Programmable CA (PCA)(See col 5 lines 30-35,col 8 lines 29-48).
- 8. As per claims 3,13,23: Lafe discloses the method/system/logic encoded in media further comprising generating a code-book, the one or more MACAs operable to perform binary searches in the code-book to compress the vectors from the data stream (col 5 lines 20-63 and col 6 lines 46-60).
- 9. As per claims 4,14,24: Lafe discloses the method/system/logic encoded in media further comprising storing the code-book using one or more multi-stage MACA-based two class classifiers which act as implicit memory to store the code-book(See col 11 lines 38-57).
- 10. As per claims 5,15,25: Lafe discloses the method/system/logic encoded in media wherein compressing the vectors from the data stream using one or more MACAs comprises deriving code-book indices for the vectors (See col 5 lines 30-35,col 8 lines 29-48).

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11. As per claims 6,16,26: Lafe discloses the method/system/logic encoded in media wherein encrypting the compressed vectors using multiple CA transforms comprises using a series of reversible transforms that use one or more of linear CA, additive CA, and non-linear CA configured in a PCA at one or more different time steps (See col 6 lines 32 through col 7 lines 65).

- 12. As per claims 7,17,27: Lafe discloses the method/system/logic encoded in media comprising encrypting the compressed vectors using four levels of CA transforms (See col 6 lines 32 through col 7 lines 65).
- 13. As per claims 8,18,28: Lafe discloses the method/system/logic encoded in media wherein encrypting the compressed vectors using multiple CA transforms comprises using one or more of linear transformations, affine transformations, and non-affine transformations (See col 6 lines 32 through col 7 lines 65).
- 14. As per claims 9,19,29: Lafe discloses the method/system/logic encoded in media further comprising transmitting the encompressed data across a communications link(col 3 lines 47-50 and col 4 lines 29-53).
- 15. As per claim 10,20,30: Lafe discloses the method/system/logic encoded in media further comprising decrypting the transmitted encompressed data using multiple CA transforms (See col 9 lines 14-35 and col 11 lines 50-67).

#### Conclusion

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16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fikremariam Yalew whose telephone number is 5712723852. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fikremariam Yalew 09/17/2007 FA Art Unit 2136

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

9,19,07